

Minneapolis Water Works Monthly Plant Effluent Water Analysis for: September 2021

Physical	l and (Chemical	l W	ater (Qua	lit	y
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	Plant Effluent Average Value
Temperature, River Water Average (°C)	23
Total Organic Carbon (ppm* as C)	2.90
Total Dissolved Solids (ppm)	176
Turbidity (NTU)	0.03
Alkalinity-Total (ppm as CaCO ₃)	46
Ammonia Nitrogen (ppm as N)	0.91
Total Chloramine Residual (ppm as NH2Cl)	3.9
Fluoride-F (ppm as F)	0.70
pH	9.06
Nitrate - NO ₃ (ppm as N)	0.16
Nitrite - NO ₂ (ppm as N)	< 0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.82
Sulfate - SO ₄ (ppm as SO ₄)	30.0
Total Hardness (grains per gallon) EDTA method	5.05
Total Hardness (ppm as CaCO ₃) EDTA method	86

Chemical Water Quality - Inorganic Metals

Plant Effluent Average Value

Chemical Element

Aluminum-Al (ppm as Al)	0.04
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	26.7
Chloride-Cl (ppm as Cl)	39.9
Chromium (ppm as Cr)	< 0.01
Copper-Cu (ppm as Cu)	< 0.01
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	4.6
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	5.8
Sodium-Na (ppm as Na)	24.2
Zinc-Zn (ppm as Zn)	< 0.01
*ppm = parts per million	